

Economic Impact Study



Los Angeles County Economic Development Corporation

High-Speed Rail Heavy Maintenance Facility in Kern County

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This report was prepared by the Economic and Policy Consulting Practice of the Los Angeles County Economic Development Corporation (LAEDC).

As the Southern California region's premier economic development organization, the mission of the LAEDC is to attract, retain and grow businesses and jobs in the regions of Los Angeles County.

The LAEDC Consulting Practice offers unbiased, fee-based custom economic and policy research for public agencies and private firms. The Consulting Practice focuses on economic impact studies, regional industry analyses, economic forecasts and issue studies, particularly in water, transportation, infrastructure and environmental policy. Projects are selected based on their relevance to the *L.A. County Strategic Plan for Economic Development* and the potential for the research to shape policy that supports the LAEDC mission.

Summary of Findings

The California High-Speed Rail Authority is evaluating several sites for a heavy maintenance facility, including two sites in Kern County: one in the city of Wasco, the other in Shafter. The establishment of such a facility in Kern County would generate employment opportunities and economic activity, first during the initial construction and then during its ongoing operations. It is unlikely, however, that the facility would stimulate additional local and regional activity through supporting industries.

Initial Construction

The Kern County Construction Services Division estimates that total development costs will range from \$255.8 to \$349.3 million. We anticipate that some of the spending will leak out of Kern County and will not have a local economic impact, and we adjust our estimates accordingly. The total one-time economic impact, which includes direct, indirect and induced activity generated by construction of the facility in Kern County is shown below.

High-Speed Rail Heavy Maintenance Facility in Kern County Total One-Time Economic Impact of Initial Construction		
	Low Range	High Range
Output (\$ millions)	\$ 231.0	\$ 329.3
Employment (jobs)	1,520	2,170
Labor Income (\$ millions)	\$ 92.2	\$ 132.1
State and local taxes (\$ millions)	\$ 7.5	\$ 10.7

Sources: Kern County Administrative Office; LAEDC

Annual Operations

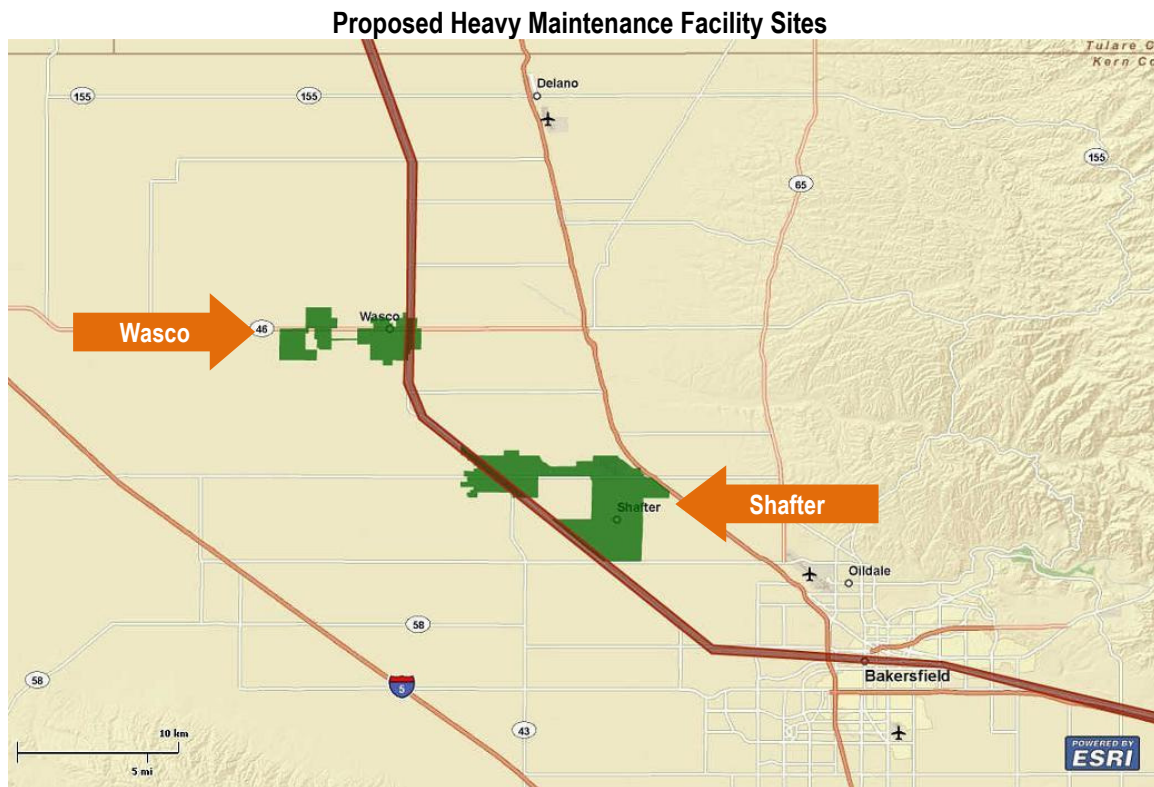
The facility is expected to employ 1,500 workers when operating at full capacity. The total annual economic impact, which includes direct, indirect and induced activity, of ongoing operations of the heavy maintenance facility at full operating capacity is shown below.

High-Speed Rail Heavy Maintenance Facility in Kern County Total Annual Economic Impact	
Output (\$ millions)	\$ 245.3
Employment (jobs)	1,990
Labor income (\$ millions)	\$ 146.3
State and local taxes (\$ millions)	\$ 25.9

Sources: Kern County Administrative Office; LAEDC

Introduction

The California High-Speed Rail Authority is evaluating several sites for a heavy maintenance facility, two of which are in Kern County. One is a 640-acre site in Shafter; the second is a 421-acre site in Wasco (see map). The establishment of such a facility would generate employment opportunities and economic activity.



Source: ESRI

In this report, the Economic and Policy Consulting Practice of the Los Angeles County Economic Development Corporation (LAEDC) presents an analysis of the economic impact of a high-speed rail heavy maintenance facility (HSR HMF) in Kern County in three parts. Part I describes the Kern County economy and its recent performance, including industrial structure, employment and employment growth, wages, unemployment, commuting patterns, property values and retail sales. Part II estimates the expected economic impact of the initial construction of the maintenance facility, including direct, indirect and induced employment and business revenues. Part III estimates the expected annual economic impact of ongoing operations at the maintenance facility, including direct, indirect and induced employment and business revenues.

I. Kern County Economic Picture

Kern County is California's third-largest county by land area, covering over 8,000 square miles. Located at the southern end of California's Central Valley, Kern County enjoys a history of gold, oil and agricultural production. It consistently ranks among the top five most-productive agricultural counties in the United States, and is one of the nation's leading petroleum-producing counties. Lying to the northeast of Los Angeles County, Kern has become the distribution center for some of the world's largest companies, providing access from the ports of Southern California to all points to the east through rail and road arteries.



Photo courtesy of Kern County

Kern County is home to more than 830,000 people whose household and housing characteristics are presented in Exhibit I-1, with projections for 2015. These data are provided by ESRI Business Analyst Online, a data service that combines geographic information systems (GIS) mapping technology with extensive public demographic and economic data.

Exhibit I-1 Demographic Profile in Kern County			
	2000	2010	2015
Population	661,645	830,222	888,432
Households	208,652	255,037	272,317
Average household size	3.03	3.11	3.12
Owner occupied housing units	129,609	155,979	167,281
Renter occupied housing units	79,043	99,058	105,036

Source: ESRI Business Analyst Online

ESRI estimates that in 2010 the population of Kern County has increased by 25 percent since the 2000 Census. The population is expected to continue growing, although at a slower rate, and is forecast to increase by approximately 7 percent by 2015 to just less than 890,000 people.

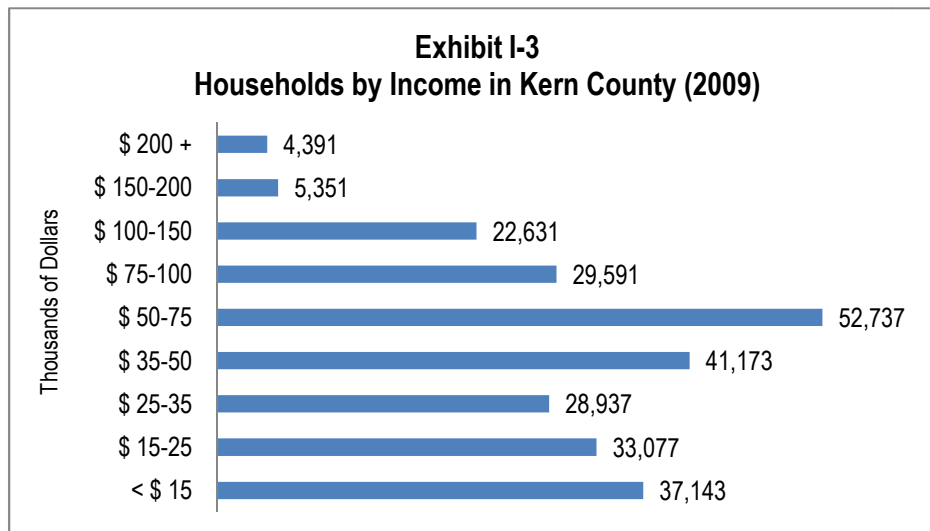
In 2010, there are an estimated 255,000 households in Kern County, and 61 percent of the housing units are owner-occupied. The average household size is just over 3 people, and is expected to remain steady over the next five years. The median age in Kern County is 31 years old. Approximately 55 percent of the residents are white and 49 percent are of Hispanic origin.

The income characteristics of households in Kern County are shown in Exhibit I-2. Median household income in 2010 is \$44,458, compared to a state-wide median of \$60,992, and per capita income is \$18,478 (\$27,845 state-wide).

Exhibit I-2 Income Profile in Kern County			
	2000	2010	2015
Median household income	\$ 35,452	\$ 44,458	\$ 51,670
Average household income	47,107	56,960	65,027
Per capita income	15,760	18,478	20,974

Source: ESRI Business Analyst Online

Distribution of income by household in Kern County is shown in Exhibit I-3. Of the 255,000 households in the county, 45 percent have annual incomes of more than \$50,000.



Source: ESRI Business Analyst Online

Industries, Employment and Wages

In 2008, Kern County had an estimated gross regional product of \$27.5 billion. There were almost 18,000 businesses representing the full variety of industries, as seen in Exhibit I-4. Almost 10 percent of all businesses are engaged in retail trade, 7.5 percent are in the health care and social assistance industry, 7.3 percent are in the construction industry, and 8.1 percent are in government sectors. A description of the industries is provided in the Appendix.

Exhibit I-4 Businesses in Kern County by Industry Sector (2008)		
Industry	Number of businesses	% of total
Agriculture	751	4.2
Mining	157	0.9
Utilities	67	0.4
Construction	1,320	7.3
Manufacturing **	416	2.3
Wholesale trade	579	3.2
Retail trade	1,710	9.5
Transportation and warehousing **	416	2.3
Information **	134	0.7
Finance and insurance	586	3.3
Real estate and rental	570	3.2
Professional, scientific and technical services	1,124	6.3
Management of companies	52	0.3
Administrative and waste management	588	3.3
Educational services	88	0.5
Health care and social assistance	1,348	7.5
Arts, entertainment and recreation	136	0.8
Accommodation and food services	1,152	6.4
Other services	5,318	29.6
Government and non-NAICS	1,463	8.1
Confidential records	5	0.0
Total *	17,980	100.0

* May not sum due to rounding

** Confidentiality requirements limit reporting in these sectors; these firms are reported in the final category.

Source: CA EDD

These businesses together paid over \$11 billion in wages to 285,000 payroll workers, as shown in Exhibit I-5. (Self-employed workers are not included.)

Exhibit I-5 Employment in Kern County by Industry Sector (2008)			
Industry	Number of employees	% of total	Average weekly wage
Agriculture	48,250	16.9	\$ 402
Mining	10,707	3.8	1,644
Utilities	1,451	0.5	1,632
Construction	16,303	5.7	950
Manufacturing **	13,433	4.7	997
Wholesale trade	8,782	3.1	962
Retail trade	27,564	9.7	512
Warehousing and storage **	7,427	2.6	849
Information **	3,049	1.1	878
Finance and insurance	5,567	2.0	936
Real estate and rental	3,276	1.1	688
Professional, scientific and technical services	10,642	3.7	1,058
Management of companies	2,503	0.9	1,025
Administrative and waste management	12,165	4.3	605
Educational services	1,056	0.4	563
Health care and social assistance	23,200	8.1	808
Arts, entertainment and recreation	2,448	0.9	346
Accommodation and food services	19,010	6.7	284
Other services	9,052	3.2	461
Government and non-NAICS	59,005	20.7	984
Confidential records	76	0.0	n/a
Total *	284,966	100.0	759

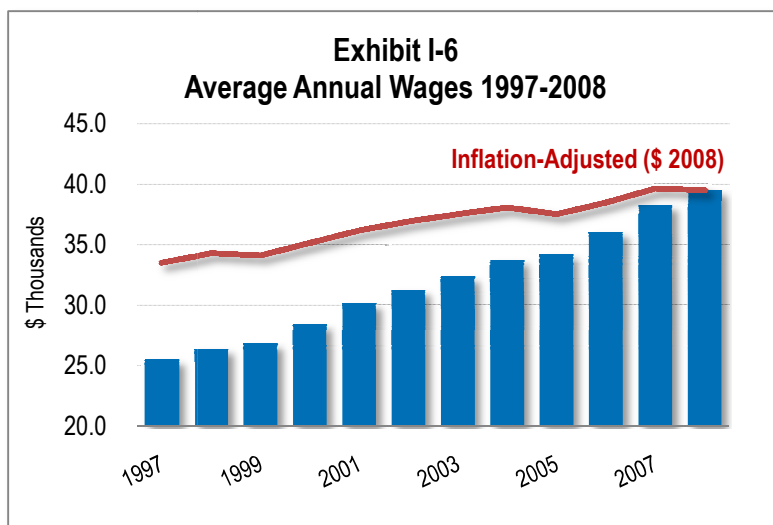
* May not sum due to rounding

** Confidentiality requirements limit reporting in these sectors; these employees are reported in the final category.

Source: CA EDD

Agriculture continues to play a large role in the economy of Kern County. Although only 4.2 percent of all businesses in Kern County were in the agriculture sector, these businesses employed almost 17 percent of all payroll employees. Retail trade employed 9.7 percent of all employees, and health care and social assistance employed 8.1 percent. The sector called “other services,” which has the largest share of all business, employed only 3.2 percent of all employees. However, this sector includes many personal services which are provided by self-employed workers, who would not appear in the tables above.

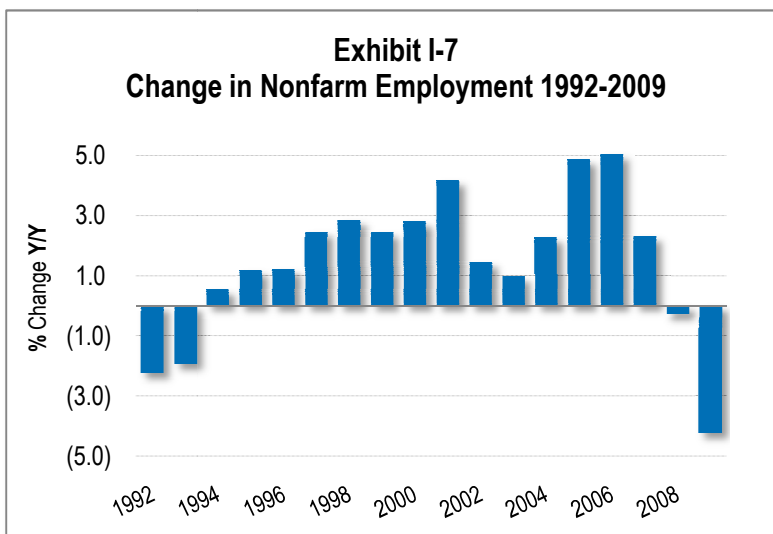
The average annual wage in 2008 across all industries was \$39,468. This has increased since 1997 from \$25,480, as shown in Exhibit I-6. The exhibit also shows inflation-adjusted annual wages, which shows that inflation has accounted for most of the increase in nominal wages over the period.



Source: CA EDD

Employment Growth and Unemployment

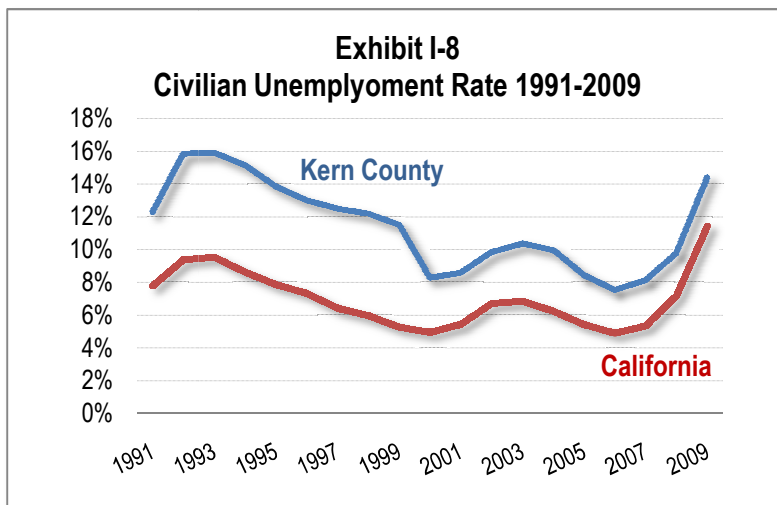
Kern County experienced a severe downturn in the early 1990s along with the rest of the country, but managed to show continued employment gains through the remainder of the 1990s and into 2006, avoiding the declines experienced by Los Angeles County in 2002 and 2003.



Source: CA EDD

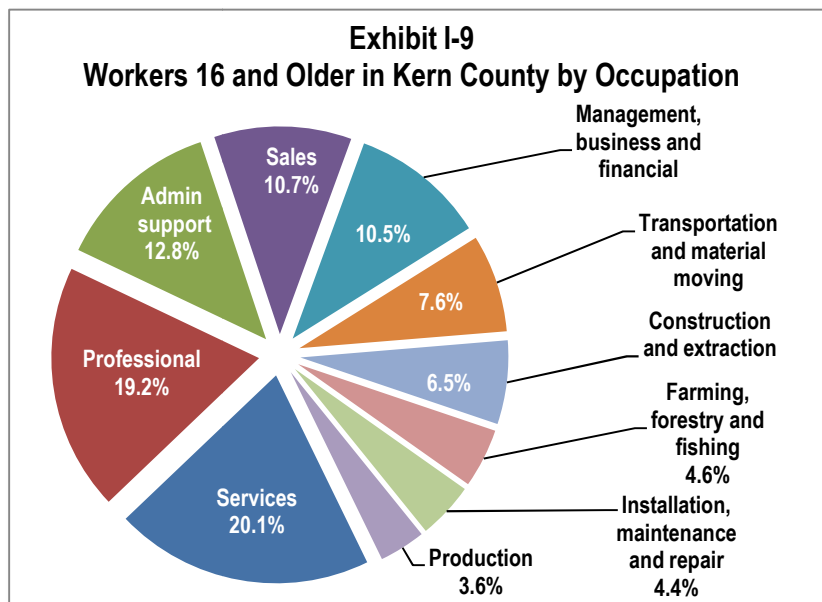
The pace of employment growth in Kern County outstripped growth in the Los Angeles County throughout the period shown in the exhibit, reaching a robust 4.9 percent in 2005 and 5.0 percent in 2006. As with the rest of the nation, Kern County entered a recession in December 2007, with employment growth entering negative territory in 2008 and falling by 5.2 percent in 2009.

The civilian unemployment rate since 1991 is shown in Exhibit I-8. The unemployment rate has been consistently higher than the state average, reaching 14.4 percent in 2009, a full 3 percentage points higher than the average unemployment rate in California.



Source: BLS

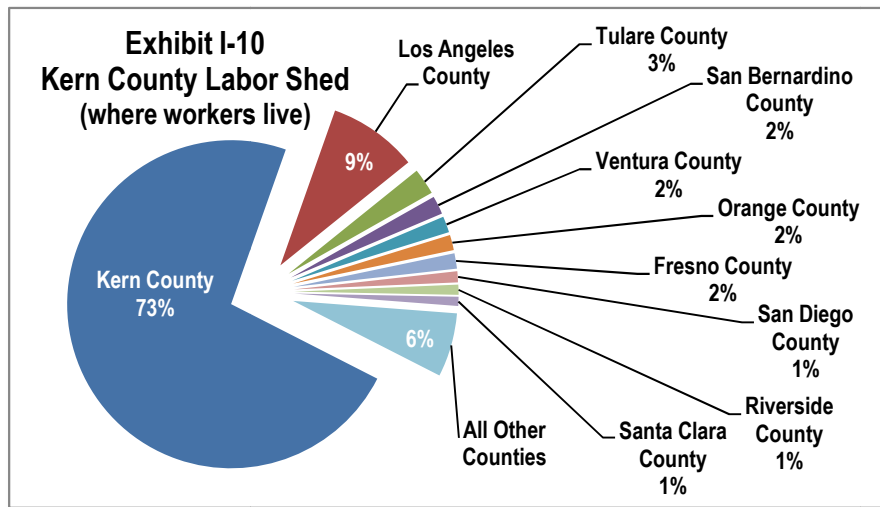
The occupational distribution of workers in Kern County is shown in Exhibit I-9. Over 20 percent of workers aged 16 and older are employed in service occupations, such as personal care, protective service, and community and social services. Another 19 percent are in professional occupations, such as architects, engineers, scientists, and legal occupations, while almost 13 percent are in administrative support occupations, which include bookkeepers, customer service reps, secretaries and office clerks.



Source: ESRI Business Analyst Online

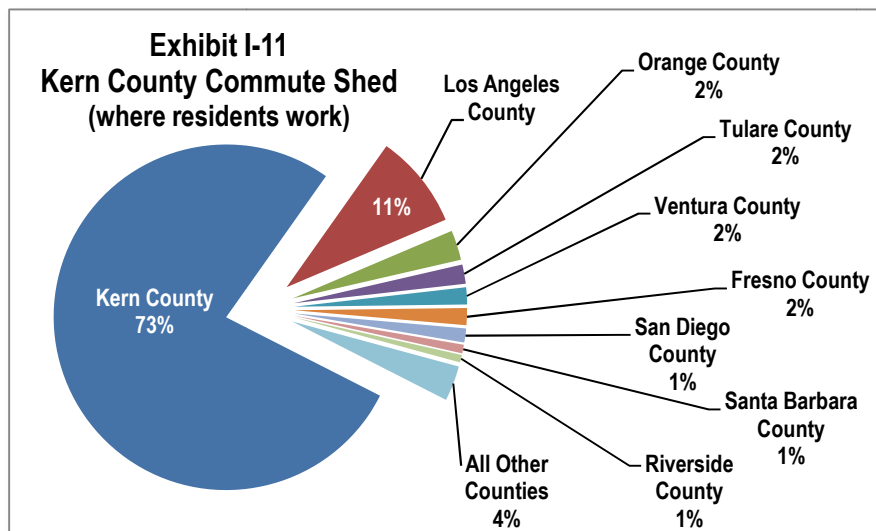
Commuting Patterns

The geographic area from which businesses draw their workers is called the labor shed. Kern County's labor shed includes all regions where those who are employed in Kern County live. Almost 73 percent of Kern County's workers live in Kern County, but many commute from neighboring counties, including 8.8 percent from Los Angeles County and 2.7 percent from Tulare County. At the city level, of all the payroll jobs in Kern County in 2008, over 32 percent were held by residents of Bakersfield. The composition of Kern County's labor shed is shown in Exhibit I-10.



Source: CA State Board of Equalization

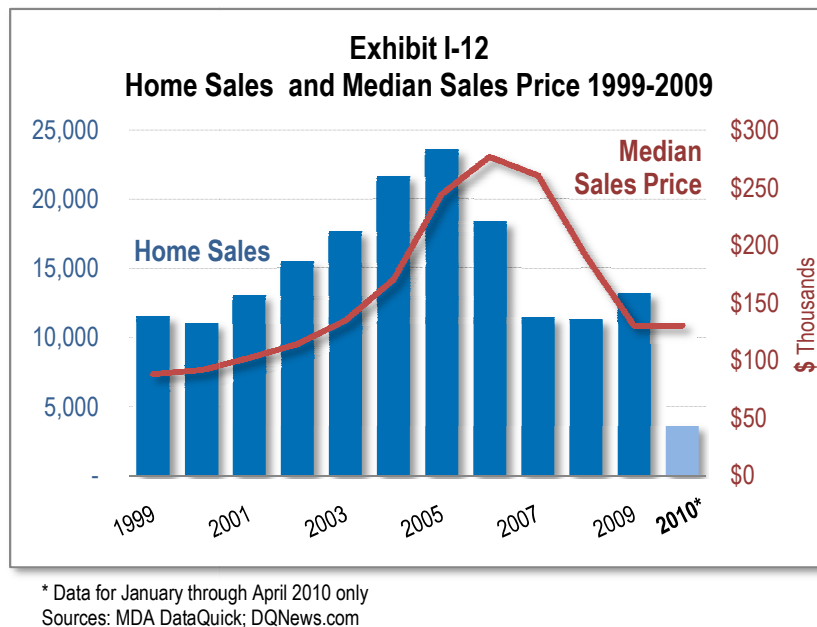
At the same time, residents of Kern County may be employed outside of the county borders. The geographic area where residents go to work is called the commute shed. Most working residents of Kern County work in Kern County. An additional 11 percent work in Los Angeles County, and 2 percent work in Tulare County. In 2008, 38 percent of Kern County residents who were employed held jobs in Bakersfield. These data are shown in Exhibit I-11.



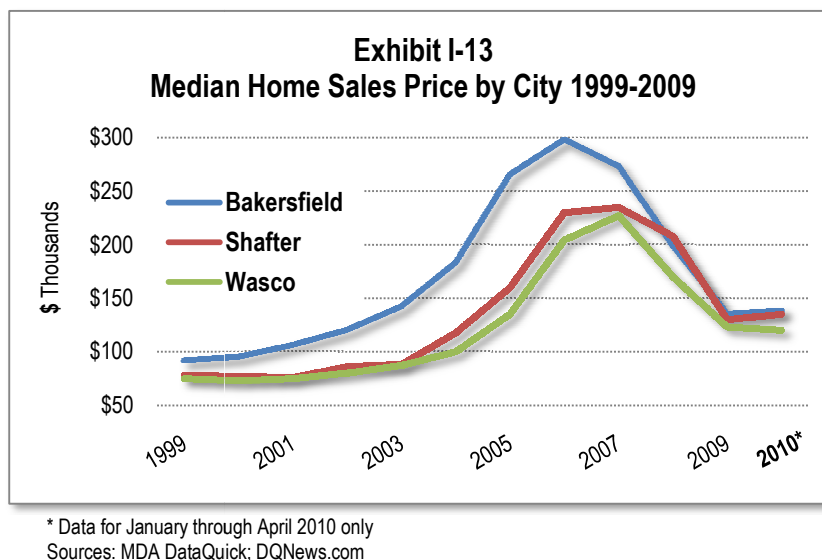
Source: CA State Board of Equalization

Property Values

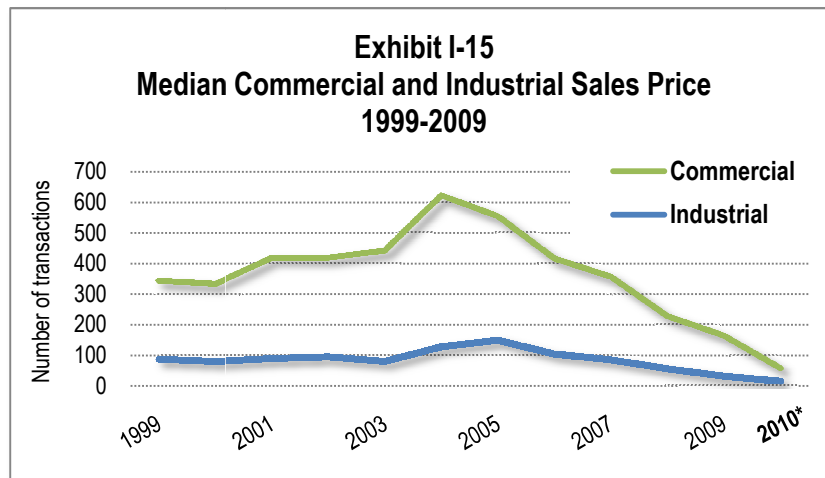
Annual home sale data for Kern County is shown in Exhibit I-12. The number of transactions grew steadily from 1999, reaching 23,574 in 2005. Sales transactions fell by 50 percent over the next two years, reaching 11,295 transactions in 2008. Median home prices rose through 2006, reaching \$276,500, before crashing to \$130,000 in 2009. Prices remained flat during the first four months of 2010.



The median sales price trends at the city level follow the county average. Data for three cities are shown in Exhibit I-13. While the median home prices in Shafter and Wasco have been well below those in Bakersfield, the recent recession has left prices equally depressed in all three cities.



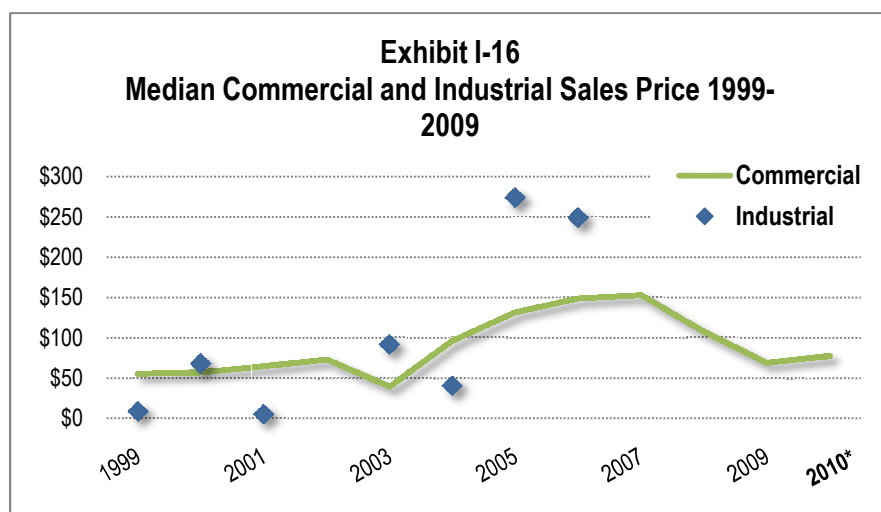
Commercial property sales peaked in 2004, with 620 transactions taking place in Kern County. The number dropped precipitously thereafter, reaching 162 transactions in 2009 and 56 transactions in the first four months of 2010. Over half of all transactions take place in Bakersfield; less than four percent occur in Shafter and Wasco.



* Data for January through April 2010 only
Sources: MDA DataQuick; DQNews.com

Industrial property sales peaked in 2005, with 149 transactions in Kern County, almost two thirds of which occurred in Bakersfield. Industrial sales fell to 32 in 2009 and 15 during the first four months of 2010.

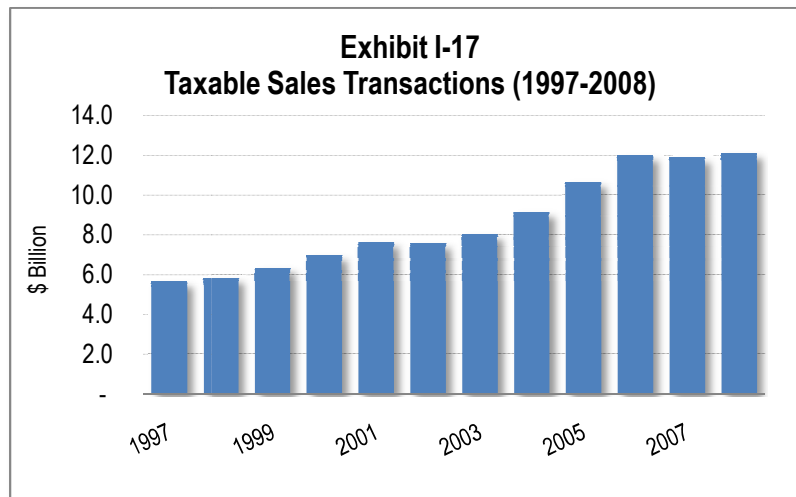
Median sales prices per square foot for commercial and industrial property are shown in Exhibit I-16 (data for industrial prices were not available for all years).



* Data for January through April 2010 only
Sources: MDA DataQuick; DQNews.com

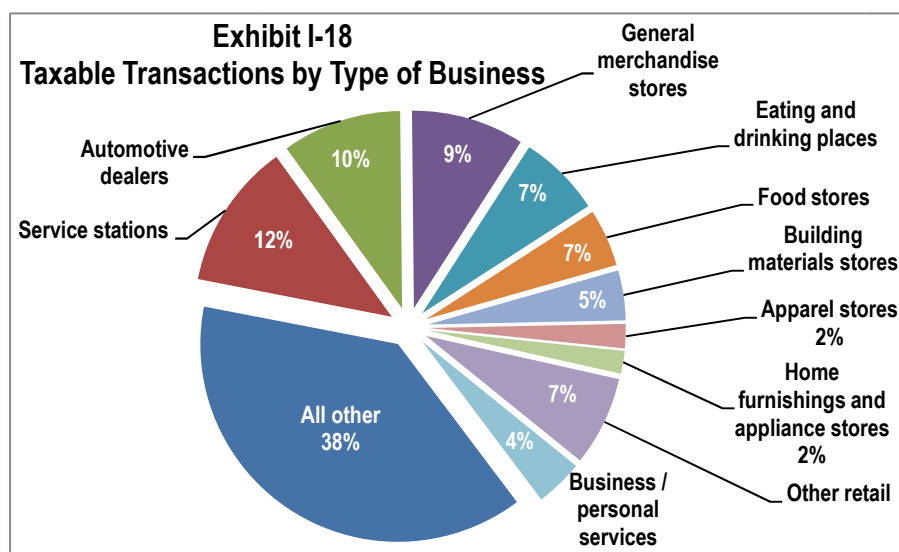
Retail Sales

Taxable sales transactions in Kern County since 1997 are presented in Exhibit I-17. In 2008, taxable transactions exceeded \$12 billion.



Source: CA State Board of Equalization

The source of taxable transactions by type of business is shown in Exhibit I-18. The majority of taxable transactions, almost 60 percent, occurred in retail stores such as service stations, automotive products dealers and general merchandise stores. Other types of businesses include wholesalers (who may also engage in retail sales), professional services, manufacturing businesses, and rental and leasing services. Although these businesses typically do not conduct taxable retail transactions, their purchases of equipment from outside the state are subject to use tax.



Source: CA State Board of Equalization

II. HSR HMF Employment Impact of Initial Construction

The HSR heavy maintenance facility will include support and storage tracks needed to perform inspection and maintenance activities, required parking areas, utilities (including an on-site electrical sub-station), and shop facilities. Support buildings will range in size from 631,000 square feet to 840,000 square feet.



Photo courtesy of California High Speed Rail Authority

The Kern County Construction Services Division estimates that costs will range from \$242.5 million to \$317.0 million, with an additional 5.5 percent for architectural and engineering costs. Extension of utilities to the site in Wasco would add \$2.2 million. In addition, full service construction management, if used, would entail additional costs ranging from \$9.7 million to \$12.7 million.

These data are summarized in the exhibit below.

Exhibit II-1 Projected Development Costs (\$ million)		
	Low Range	High Range
Extension of utilities (Wasco site)	\$ 0.0	\$ 2.2
Construction	242.5	317.0
Architectural and engineering fees	13.3	17.4
Construction management	9.7	12.7

Source: Kern County Administrative Office

Given this information, we estimate that the total development costs will range from \$255.8 to \$349.3 million. The low end of the range includes the smallest possible building layout and related construction and architectural/engineering fees, but no utilities extension or construction management. The high end of the range assumes the larger buildings are built at the Wasco site (requiring the utilities extension) using a construction management firm. The actual cost will fall somewhere in this range depending on which site is selected, the size of the project and whether professional construction management is used.

We anticipate that some of the spending will leak out of Kern County and will not have a local economic impact. Our estimates correct for this leakage, which occurs when goods and services for the project are purchased from outside the county.

The total economic impact of both the low range and the high range of construction spending is shown in the exhibit below. Spending \$255.8 million on the development of the facility will generate a one-time increase in economic output (measured by business revenues) in Kern County of \$231.0 million. The investment will create 1,520 jobs in Kern County with total earnings of \$92.2 million.

Should the development costs reach the high end of the range, the one-time increase in economic output in Kern County will be \$329.3 million, creating 2,170 jobs with total earnings of \$132.1 million.

Exhibit II-2		
Total One-Time Economic Impact of Kern HSR Construction		
	Low Range	High Range
Direct spending (\$ millions)	\$ 255.8	\$ 349.3
Spending in Kern County (\$ millions)	170.5	242.6
Total Economic Impact		
Output (\$ millions)	\$ 231.0	\$ 329.3
Employment (jobs)	1,520	2,170
Labor income (\$ millions)	\$ 92.2	\$ 132.1

Sources: Kern County Administrative Office; LAEDC

Industry Sector Impacts

The economic impact spills across industries in Kern County through indirect and induced effects. The annual impacts by industry sector due to ongoing operations appear in the exhibits below. Exhibit II-3 presents the industry impacts which would occur if construction costs are in the low range of the estimates; Exhibit II-4 presents industry impacts for the high range of construction costs.

Much of the impacts will occur in the construction sector and the professional, scientific and technical services industry, but other sectors affected include health care and social assistance, retail trade and accommodation and food services.

The values in Exhibits II-3 and II-4 should be interpreted as illustrative of the industry effects rather than precise given model and data limitations. A description of these industries is provided in the Appendix.

Exhibit II-3 Economic Impact by Industry Sector – Low Range			
Industry	Output (\$ million)	Jobs	Labor income (\$ million)
Agriculture	\$ 0.2	1	\$ 0.1
Mining	0.1	0	0.0
Utilities	1.1	1	0.2
Construction	161.9	986	66.0
Manufacturing	3.0	6	0.4
Wholesale trade	2.0	11	0.8
Retail trade	6.9	94	3.1
Transportation and warehousing	1.6	10	0.6
Information	1.7	5	0.3
Finance and insurance	4.0	19	1.1
Real estate and rental	11.0	16	0.7
Professional, scientific and technical services	21.4	160	11.7
Management of companies	0.5	3	0.2
Administrative and waste management	1.7	32	0.9
Educational services	0.2	4	0.1
Health care and social assistance	6.1	69	3.3
Arts, entertainment and recreation	0.4	6	0.1
Accommodation and food services	2.1	38	0.7
Other services	4.1	51	1.5
Government and non-NAICS	1.1	5	0.4
Total *	\$ 231.0	1,520	\$ 92.2

* May not sum due to rounding

Source: LAEDC

Exhibit II-4 Economic Impact by Industry Sector – High Range			
Industry	Output (\$ million)	Jobs	Labor income (\$ million)
Agriculture	\$ 0.3	2	\$ 0.1
Mining	0.2	0	0.0
Utilities	1.6	2	0.3
Construction	225.9	1,375	92.1
Manufacturing	4.1	9	0.5
Wholesale trade	2.8	16	1.1
Retail trade	9.8	134	4.4
Transportation and warehousing	2.2	14	0.9
Information	2.5	7	0.5
Finance and insurance	5.8	27	1.6
Real estate and rental	15.8	22	0.9
Professional, scientific and technical services	35.1	264	19.2
Management of companies	0.7	4	0.3
Administrative and waste management	2.5	48	1.3
Educational services	0.3	6	0.1
Health care and social assistance	8.7	99	4.7
Arts, entertainment and recreation	0.5	8	0.2
Accommodation and food services	3.1	55	1.1
Other services	5.7	72	2.2
Government and non-NAICS	1.5	8	0.6
Total *	\$ 329.3	2,170	\$ 132.1

* May not sum due to rounding

Source: LAEDC

Retail Spending Impact

The additional employment and earnings from the construction project will add to the retail spending in Kern County. To estimate this spending, we apply the spending patterns described in the *Consumer Expenditure Survey, 2007-2008* of the Bureau of Labor Statistics of the U.S. Department of Commerce to the labor income generated by the construction.

The survey disaggregates spending for various categories, including housing, transportation, food, health care, etc. We assume that only the following categories represent local retail spending: food away from home, alcoholic beverages, housekeeping supplies, household furnishings and equipment, apparel and services, gasoline and motor oil purchases, other vehicle expenses, personal care products and services, reading, tobacco products and smoking supplies, and a portion of entertainment spending.

Since this data is not available for Kern County, we review the data for the Los Angeles metropolitan area. The percentage of household income spent on these categories in Los Angeles is approximately 22 percent. Because we believe that household expenditures in Los Angeles are skewed towards property and may not be representative of Kern County, we also review the average spending pattern in the United States, and find that our local spending categories account for 23.5 percent of household income at the national level.

Given this information, we estimate that between 22 and 23.5 percent of the new labor income of between \$92.2 million and \$132.1 million, or between \$20.3 million and \$31.0 million, will be added to local retail spending by the construction-related activity.

Fiscal Impact

In addition to the economic impact, we have identified at least \$7.5 million in state and local tax revenues that will be generated by the initial construction, as shown in Exhibit II-5.

Exhibit II-5 Total Fiscal Impact of Capital Expenditures (\$ million)		
	Low Range	High Range
Income taxes (including profits taxes)	\$ 2.6	\$ 3.7
Sales taxes	1.8	2.5
Property taxes	1.5	2.1
Fees, fines	0.8	1.2
Social insurance	0.5	0.7
Other taxes	0.4	0.5
Total *	\$ 7.5	\$ 10.7

* May not sum due to rounding
Source: LAEDC

Our estimates of tax revenues are incomplete since we do not account for permits and fees payable on capital improvement projects, which could be considerable.

Regional Employment Impacts

Construction of the HSR heavy maintenance facility will have additional employment impacts beyond those estimated for Kern County. Many purchases of goods and services will come from neighboring counties, and we have seen that workers may commute from as far away as San Diego County (or beyond). Using the data from the Kern County labor shed, we estimate the employment impact of the HSR HMF on Los Angeles County and on those counties which provided more than 1 percent of the work force for Kern County, which include Tulare, San Bernardino, Ventura, Orange, Fresno, San Diego and Riverside. These regional employment impacts are presented in Exhibit II-6.

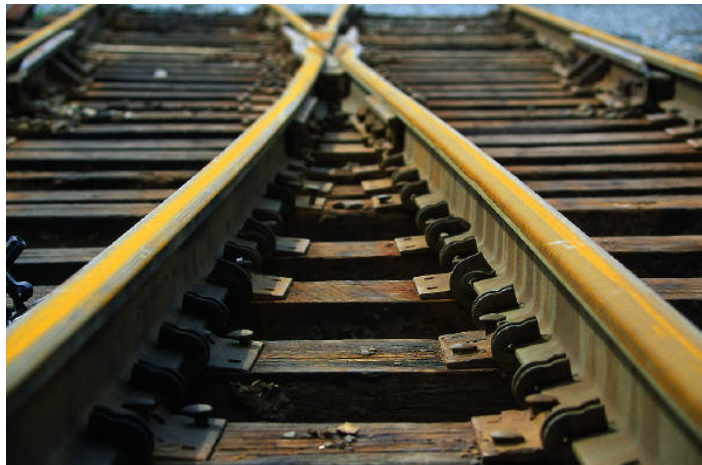
Exhibit II-6 Regional Employment Impact of Kern HSR Construction		
	Low Range	High Range
Kern County	1,520	2,170
Los Angeles County	240	340
Other neighboring counties	120	170

Sources: Kern County Administrative Office; LAEDC

The employment impact of the construction of the HSR HMF in Kern County is estimated to be between 1,520 and 2,170 jobs, depending on the total construction spending. An additional 240 to 340 jobs would be generated in Los Angeles County, and between 120 and 170 jobs in the remaining seven counties.

III. HSR HMF Employment Impact of Ongoing Operations

The heavy maintenance facility will offer a wide variety of capabilities involved in the repair and overhaul of high-speed trains, including: exterior washing and inspection; interior renovation; interior and exterior paint; steel body structure modifications; selected electrical component overhaul; repairs to train sets that have extensive damage caused by accident or act of nature; and other repairs common to conventional rolling stock. The facility will need layup and storage



tracks to support the removal of trains from service, and a number of separate support shops, such as a truck shop, a component cleaning area, brake shop, air room (to clean, inspect and rebuild brake system components), an HVAC repair shop, a wheel shop, and an electronics shop for electronic components such as panels relays, circuit cards and control units. The facility would also need space for an inventory of parts, including a loading dock and all equipment necessary for storage and distribution (forklift, cranes, pallet shelving etc.).

The facility is expected to employ 1,500 workers when operating at full capacity, which will not happen until years after the facility opens during initial testing of the system. Exhibit III-1 presents our estimates of the annual ongoing operations impact of the heavy maintenance facility at full operating capacity.

Exhibit III-1 Economic Impact of Ongoing Operations in Kern County	
Direct Impact	
Employment	1,500
Total Economic Impact	
Output (\$ millions)	\$ 245.3
Employment (jobs)	1,990
Labor income (\$ millions)	\$ 146.3

Sources: Kern County Administrative Office; LAEDC

During the initial operations, the employment will be far less than the 1,500 expected once the entire state-wide HSR system is complete and operational. The economic impact will be proportionally lower until then.

At full operating capacity, the heavy maintenance facility will generate annual economic activity in Kern County in the amount of \$245.3 million, and will support 1,990 direct, indirect and induced jobs with total annual earnings of \$146.3 million.

Industry Sector Impacts

The economic impact will spill across industries in Kern County through indirect and induced effects. The economic impacts by industry sector due to ongoing operations appear in Exhibit III-2.

In addition to the impacts in the transportation sector, much of the impacts will occur in the retail trade and health care and social assistance sectors.

Exhibit III-2 Economic Impact of Ongoing Operations by Industry Sector			
Industry	Output (\$ million)	Jobs	Earnings (\$ million)
Agriculture	\$ 0.3	2	\$ 0.1
Mining	0.1	0	0.0
Utilities	1.4	2	0.3
Construction	0.7	6	0.4
Manufacturing	1.0	1	0.1
Wholesale trade	1.4	8	0.5
Retail trade	8.1	110	3.6
Transportation and warehousing	188.1	1,519	128.4
Information	1.5	4	0.3
Finance and insurance	5.0	23	1.4
Real estate and rental	15.1	15	0.4
Professional, scientific and technical services	1.4	11	0.6
Management of companies	0.4	3	0.2
Administrative and waste management	2.0	36	1.0
Educational services	0.3	6	0.1
Health care and social assistance	9.8	111	5.3
Arts, entertainment and recreation	0.6	8	0.2
Accommodation and food services	2.8	50	1.0
Other services	3.1	54	1.3
Government and non-NAICS	2.4	18	1.3
Total *	\$ 245.3	1,990	\$ 146.3

* May not sum due to rounding
Source: LAEDC

The values in the exhibit should be interpreted as illustrative of the industry effects rather than precise given model and data limitations. A description of these industries is provided in the Appendix.

Retail Spending Impact

Since this data is not available for Kern County, we review the data for the Los Angeles metropolitan area. The percentage of household income spent on these categories in Los Angeles is approximately 22 percent. Because we believe that household expenditures in Los Angeles are skewed towards property and may not be representative of Kern County, we also review the average spending pattern in the United States, and find that our local spending categories account for 23.5 percent of household income at the national level.

Using the same methodology as for construction, we estimate that between 22 and 23.5 percent of the new labor income of \$146.3 million, or between \$32.2 million and \$34.4 million, will be added to the annual local retail spending once the HSR HMF reaches full operation.

Fiscal Impact

In addition, we have identified \$25.9 million in state and local tax revenues that will be generated by the ongoing operations of the heavy maintenance facility, as shown in Exhibit III-3.

Exhibit III-3	
Fiscal Impact of Metropolitan Operations (\$ million)	
Sales taxes	\$ 9.4
Property taxes	7.5
Income taxes (including profits taxes)	4.5
Fees, fines	2.0
Social insurance	0.6
Other taxes	1.9
Total *	\$ 25.9

* May not sum due to rounding
Source: LAEDC

Our estimates of tax revenues are incomplete since we do not account for any ongoing permits and fees payable on typical improvement projects, which could be considerable.

Regional Employment Impacts

As with construction, operations of the HSR heavy maintenance facility will have additional regional employment impacts beyond Kern County as purchases of goods, services and labor come from neighboring counties. Using the data from the Kern County labor shed, we estimate the employment impact of the HSR HMF on Los Angeles County and on those counties which provided more than 1 percent of the work force for Kern County, which

include Tulare, San Bernardino, Ventura, Orange, Fresno, San Diego and Riverside. These regional employment impacts are presented in Exhibit III-4.

Exhibit III-4	
Economic Impact of Ongoing Operations in Kern County	
Kern County	1,990
Los Angeles County	120
Other neighboring counties	60

Sources: Kern County Administrative Office; LAEDC

The annual employment impact of the operations of the HSR HMF in Kern County (at full capacity) is estimated to be 1,990 jobs. An additional 120 jobs would be generated in Los Angeles County, and 60 jobs in the remaining seven counties.

IV. Prospects for Supporting Industries

One potential benefit of establishing a heavy maintenance facility in Kern County is the ability of the facility to attract new ancillary industries or to stimulate the output of existing industries. These are called backward linkages.

The difficulty of establishing or strengthening these linkages is due in large part to the ability of other areas to supply the inputs needed.



Initially, we would expect the prospects for Kern County to develop supporting industries to be quite low. In the early implementation of the high-speed rail system, relatively few trains would need heavy maintenance, and demand for local products servicing the facility will be limited. Moreover, even in the longer run, as the high-speed rail system develops and extends statewide, demand may remain insufficient to support a local network of suppliers given the specialized nature and limited sales volume of the products needed.

We can contrast this with the automotive industry, in which a single automotive plant may produce thousands of vehicles annually, each requiring a wide variety of components from batteries to windshields to radios. The high-speed train sets, on the other hand, need only replacement parts and supplies such as paint for a comparatively small fleet of vehicles.

Further, based on existing labor patterns and commodity flows we would expect that many parts and services will be produced in or imported via the Los Angeles area.

On the other hand, California would be the first adopter of high-speed rail in the nation. As high-speed rail becomes more common, Kern County might well capitalize on the advantages it enjoys such as its availability of affordable land and housing, abundant labor, and its relative proximity to Los Angeles and its trade routes, and attract additional heavy maintenance and related activities. Once the high-speed rail system is complete, one might expect that cities such as Bakersfield would be the prime beneficiaries of the improved transportation network.

Even without a local supplier network, however, the high-speed rail heavy maintenance facility would be a valuable contributor to Kern County. At full operation, the facility would bring 1,500 relatively well-paid, stable jobs to an area which suffers an unemployment rate that consistently exceeds the statewide average. Purchases made by households supported by these jobs will create additional demand for local goods and services. Based on existing

commute patterns and an examination of the residential pattern of employees at the Target Distribution Center, we would expect that approximately half of the employees of the facility would be based in Bakersfield, creating an economic impact in that city as households spend their earnings.

Nevertheless, maintenance of the HSR fleet would be less prone to disruption due to swings in the state economy, and the facility would therefore contribute to the diversification and stabilization of the local economy.

Appendix

Methodology

The total estimated economic impact includes direct, indirect and induced effects. **Direct activity** includes the materials purchased and the employees hired by the Kern County Construction Services Division and its contractors during ongoing operations and for the capital improvement projects. **Indirect effects** are those which stem from the employment and business revenues motivated by the purchases made by the Kern County Construction Services Division and its contractors. For example, indirect jobs are sustained by the suppliers of the office supplies and insurance purchased by the Kern County Construction Services Division and by contractors hired for the capital improvements. **Induced effects** are those generated by the spending of employees whose wages are sustained by both direct and indirect spending.

We used information supplied by the Kern County Construction Services Division for initial spending, and estimated the direct, indirect and induced effects using models developed with data and software from the Minnesota IMPLAN Group. In all cases, we have proceeded as if the spending will take place within a single year, as is customary in this type of impact analysis. For long-term projects such as multi-year capital improvement projects, the reader is cautioned to note that the modeling system does not account for changes in prices and wages over time. Our estimates for labor income and output are expressed in current (2010) dollars.

The estimated economic impacts are based on spending within Kern County. Job creation estimates are measured on a job-count basis for both wage-and-salary workers and proprietors regardless of the number of hours worked.

Description of Industry Sectors

The industry sectors used in this report are established by the North American Industry Classification System (NAICS). NAICS divides the economy into twenty sectors, and groups industries within these sectors according to production criteria. Listed below is a short description of each sector as taken from the sourcebook, *North American Industry Classification System*, published by the U.S. Office of Management and Budget (2007).

Agriculture, Forestry, Fishing and Hunting: Activities of this sector are growing crops, raising animals, harvesting timber, and harvesting fish and other animals from farms, ranches, or the animals' natural habitats.

Mining: Activities of this sector are extracting naturally-occurring mineral solids, such as coal and ore; liquid minerals, such as crude petroleum; and gases, such as natural gas; and

beneficiating (e.g., crushing, screening, washing and flotation) and other preparation at the mine site, or as part of mining activity.

Utilities: Activities of this sector are generating, transmitting, and/or distributing electricity, gas, steam, and water and removing sewage through a permanent infrastructure of lines, mains, and pipes.

Construction: Activities of this sector are erecting buildings and other structures (including additions); heavy construction other than buildings; and alterations, reconstruction, installation, and maintenance and repairs.

Manufacturing: Activities of this sector are the mechanical, physical, or chemical transformation of material, substances, or components into new products.

Wholesale Trade: Activities of this sector are selling or arranging for the purchase or sale of goods for resale; capital or durable non-consumer goods; and raw and intermediate materials and supplies used in production, and providing services incidental to the sale of the merchandise.

Retail Trade: Activities of this sector are retailing merchandise generally in small quantities to the general public and providing services incidental to the sale of the merchandise.

Transportation and Warehousing: Activities of this sector are providing transportation of passengers and cargo, warehousing and storing goods, scenic and sightseeing transportation, and supporting these activities.

Information: Activities of this sector are distributing information and cultural products, providing the means to transmit or distribute these products as data or communications, and processing data.

Finance and Insurance: Activities of this sector involve the creation, liquidation, or change of ownership of financial assets (financial transactions) and/or facilitating financial transactions.

Real Estate and Rental and Leasing: Activities of this sector are renting, leasing, or otherwise allowing the use of tangible or intangible assets (except copyrighted works), and providing related services.

Professional, Scientific, and Technical Services: Activities of this sector are performing professional, scientific, and technical services for the operations of other organizations.

Management of Companies and Enterprises: Activities of this sector are the holding of securities of companies and enterprises, for the purpose of owning controlling interest or influencing their management decision, or administering, overseeing, and managing other establishments of the same company or enterprise and normally undertaking the strategic or organizational planning and decision-making of the company or enterprise.

Administrative and Support and Waste Management and Remediation Services: Activities of this sector are performing routine support activities for the day-to-day operations of other organizations, such as: office administration, hiring and placing of personnel, document

preparation and similar clerical services, solicitation, collection, security and surveillance services, cleaning, and waste disposal services.

Educational Services: Activities of this sector are providing instruction and training in a wide variety of subjects. Educational services are usually delivered by teachers or instructors that explain, tell, demonstrate, supervise, and direct learning. Instruction is imparted in diverse settings, such as educational institutions, the workplace, or the home through correspondence, television, or other means.

Health Care and Social Assistance: Activities of this sector are operating or providing health care and social assistance for individuals.

Arts, Entertainment and Recreation: Activities of this sector are operating facilities or providing services to meet varied cultural, entertainment, and recreational interests of their patrons, such as: (1) producing, promoting, or participating in live performances, events, or exhibits intended for public viewing; (2) preserving and exhibiting objects and sites of historical, cultural, or educational interest; and (3) operating facilities or providing services that enable patrons to participate in recreational activities or pursue amusement, hobby, and leisure-time interests.

Accommodation and Food Services: Activities of this sector are providing customers with lodging and/or preparing meals, snacks, and beverages for immediate consumption.

Other Services (except Public Administration): Activities of this sector are providing services not specifically provided for elsewhere in the classification system. Establishments in this sector are primarily engaged in activities, such as equipment and machinery repairing, promoting or administering religious activities, grant-making, advocacy, and providing dry-cleaning and laundry services, personal care services, death care services, pet care services, photofinishing services, temporary parking services, and dating services.

Supplementary Tables

A-1	Annual Home Sales by City
A-2	Median Home Sale Price by City
A-3	Median Home Sale Price per Square Foot
A-4	Commercial Property Sales by City
A-5	Median Commercial Property Sale Price by City
A-6	Median Commercial Property Sale Price per Square Foot
A-7	Industrial Property Sales by City
A-8	Median Industrial Property Sale Price by City
A-9	Median Industrial Property Sale Price per Square Foot

Exhibit A-1											
Annual Home Sales (Kern County)											
City	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	Jan-Apr 2010
ARVIN	100	87	144	152	205	249	283	204	148	155	50
BAKERSFIELD	7,103	8,513	10,504	12,279	15,076	16,709	12,766	7,578	8,220	9,636	2,541
BODFISH	14	10	18	20	19	26	17	3	12	14	5
BORON	22	21	19	30	37	60	43	29	9	16	4
BUTTONWILLOW	7	10	16	12	19	25	12	14	9	8	5
CALIENTE	14	10	20	18	11	17	9	5	5	6	2
CALIFORNIA CITY	180	236	232	301	401	607	458	385	301	506	130
CANTIL					1		1	2		1	1
DELANO	308	273	430	479	473	709	634	365	296	336	99
EDWARDS	19	15	16	26	27	36	21	17	6	13	7
FELLOWS	6	2	1	2	2	5	7	3	1	3	2
FRAZIER PARK	179	183	243	221	220	211	127	148	116	167	47
GLENNVILLE	1		1	2		1	1				1
INYOKERN	16	13	13	13	17	21	13	13	9	13	
JOHANNESBURG	1			3	1	2		2	1		
KEENE	5	18	27	16	16	11	6	5	5	4	1
KERNVILLE	16	18	17	23	16	10	7	18	7	10	
LAKE ISABELLA	60	90	106	113	118	87	78	61	42	50	13
LAMONT	98	95	132	153	147	170	157	67	41	76	29
LEBEC	4	1	5	7	4	7	1	26	19	10	3
LOST HILLS	1	1	4	1	1	3	3	13	6	4	2
MARICOPA	8	9	7	12	15	22	11	8	6	4	1
MC FARLAND	50	73	112	99	122	136	89	136	59	125	39
MC KITTRICK		1				1		1	1		1
MOJAVE	36	42	38	74	102	94	71	36	34	44	13
ONYX	1	1	5	3			4	1	3	1	3
RANDESBURG						1			1	1	
RIDGECREST	518	539	689	626	716	816	669	515	439	489	123
ROSAMOND	302	338	428	447	473	512	383	331	320	369	117
SHAFTER	161	154	191	162	267	325	302	184	173	185	68
TAFT	181	224	213	276	407	457	412	219	170	179	61
TEHACHAPI	601	676	926	997	1,050	1,003	630	677	481	498	127
TUPMAN	1	1		1	1	1					
WASCO	144	159	214	192	323	372	213	163	133	164	62
WELDON	7	5	11	6	11	12	4	6	6	6	3
WOFFORD HGHTS	47	55	49	64	73	55	28	37	28	30	6
WOODY			2	2		1		2	2		
KERN COUNTY	11,033	13,071	15,465	17,676	21,683	23,574	18,397	11,433	11,295	13,208	3,598

Source: MDA DataQuick; DQNews.com

Exhibit A-2 Median Home Sale Price											
City	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	Jan-Apr 2010
ARVIN	\$ 70,500	\$ 77,500	\$ 89,250	\$ 87,750	\$110,000	\$156,000	\$220,000	\$231,000	\$170,000	\$115,250	\$110,000
Bakersfield	95,000	106,000	120,000	142,000	183,000	265,000	298,000	273,000	198,500	135,000	138,000
BODFISH	57,000	83,750	70,000	85,000	104,000	175,000	130,000	122,000	109,000	108,000	100,000
BORON	35,000	43,023	61,250	55,500	62,250	85,000	120,250	110,000	75,000	50,000	45,750
BUTTONWILLOW	60,000	79,500	97,500	85,000	85,000	100,000	159,000	147,500	125,000	118,500	67,000
CALIENTE	72,500	70,000	107,000	140,000	225,500	174,750	379,000	352,750	127,000	201,000	
CALIFORNIA CITY	67,000	75,000	79,000	97,000	130,000	175,500	230,000	208,000	120,000	59,000	63,500
CANTIL								115,000		65,000	55,000
DELANO	86,000	85,500	88,000	104,000	114,500	150,000	209,000	230,000	170,000	125,000	119,000
EDWARDS	46,000	52,000	61,500	68,000	102,000	123,750	155,000	177,000	132,500	60,500	34,500
FELLOWS	40,000	62,500	28,000	55,750	241,500	121,500	85,500	159,000	216,000	40,500	54,500
FRAZIER PARK	110,500	124,500	129,500	165,000	223,750	272,000	305,000	295,000	200,000	147,000	122,500
GLENNVILLE	42,000		68,000	120,000		290,000	120,000				45,000
INYOKERN	90,000	61,000	70,000	139,500	177,000	140,000	190,000	167,000	49,500	185,750	
JOHANNESBURG				43,500		25,000		60,000	28,000		
KEENE	67,000	83,500	105,000	190,000	265,000	549,500	465,000	743,500	731,500	382,500	390,000
KERNVILLE	113,500	102,250	137,000	136,500	155,000	196,000	213,750	269,000	280,000	215,000	
LAKE ISABELLA	73,500	77,000	80,000	89,500	112,000	139,000	187,000	169,000	146,250	115,000	115,000
LAMONT	70,000	70,500	81,500	79,250	92,000	125,000	190,000	150,000	99,500	61,000	56,000
LEBEC	98,750	131,500	132,250	143,000	297,500	286,750	530,000	282,000	167,000	134,500	225,000
LOST HILLS		82,000	75,000	58,000	40,500	70,000	76,000	156,000	190,000	180,000	220,000
MARICOPA	53,500	55,000	36,500	48,000	55,000	79,000	140,000	72,000	120,500	63,500	31,000
MC FARLAND	67,000	66,000	62,750	70,000	91,750	107,000	175,000	203,000	165,000	165,000	156,000
MC KITTRICK		38,000				75,000			189,000		57,000
MOJAVE	44,250	53,000	61,750	66,000	90,000	127,500	170,000	174,500	75,000	45,750	40,500
ONYX	30,000	37,000	45,250	240,000			97,500	170,000	107,000	49,500	87,000
RANDBURG						95,500					
RIDGECREST	62,500	75,577	85,000	103,000	120,000	160,000	175,000	186,000	180,000	159,000	152,000
ROSAMOND	89,500	105,000	115,500	137,000	190,000	250,000	280,000	288,000	195,000	120,000	125,000
Shafter	77,000	76,000	86,000	88,000	117,750	160,000	230,000	235,000	208,000	130,000	135,000
TAFT	62,000	70,000	67,250	73,000	79,000	110,000	148,000	152,250	109,000	60,000	48,250
TEHACHAPI	102,000	115,000	134,000	153,000	188,000	260,000	297,000	277,750	240,000	181,500	167,000
TUPMAN	53,000	48,500		70,000		80,000					
Wasco	73,000	75,000	80,000	87,250	100,000	135,000	204,500	227,250	170,000	123,000	120,000
WELDON	89,500	144,000	86,755	55,000	119,500	136,000	153,500	155,000	183,000	59,500	70,000
WOFFORD HGHTS	73,250	80,000	95,000	95,000	125,000	185,000	221,250	190,000	230,000	110,000	111,250
WOODY			128,750	116,750		350,000		275,000	177,500		
KERN COUNTY	\$ 91,500	\$102,000	\$114,000	\$134,500	\$170,000	\$244,000	\$276,500	\$260,000	\$190,000	\$130,000	\$130,000

Source: MDA DataQuick; DQNews.com

Exhibit A-3 Median Home Sale Price per Square Foot											
City	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	Jan-Apr 2010
ARVIN	\$ 59.97	\$ 62.53	\$ 67.20	\$ 71.78	\$ 78.76	\$ 117.07	\$ 149.20	\$ 142.30	\$ 99.89	\$ 78.82	\$ 75.00
BAKERSFIELD	66.78	72.28	78.78	93.82	119.88	167.32	185.87	159.95	113.25	84.72	85.51
BODFISH	48.33	58.78	67.83	73.44	93.47	131.43	150.95	114.45	117.28	71.43	70.92
BORON	32.66	39.01	42.74	45.40	53.20	71.22	106.20	95.79	67.20	40.87	29.73
BUTTONWILLOW	59.07	46.15	64.07	57.81	68.03	100.68	118.07	114.39	82.64	70.99	39.45
CALIENTE	69.71	54.95	75.54	96.12	140.45	177.22	255.55	206.25	116.52	124.96	
CALIFORNIA CITY	48.17	52.94	57.61	66.67	88.82	121.79	149.31	133.65	77.61	39.53	39.78
CANTIL								55.92		73.86	32.74
DELANO	68.42	69.03	69.78	75.98	84.49	121.14	163.73	147.69	114.40	90.16	88.54
EDWARDS	37.89	38.36	45.87	48.63	82.31	93.47	118.90	117.35	96.54	43.68	28.08
FELLOWS	34.35	40.05	25.88	43.09	140.46	81.68	76.16	105.58	118.49	38.79	43.67
FRAZIER PARK	78.24	91.13	104.43	122.59	160.82	198.26	219.85	209.27	138.16	96.40	98.09
GLENNVILLE	39.47		51.05	69.44		163.29	107.91				40.47
INYOKERN	55.31	45.13	34.08	75.14	113.31	117.30	142.86	126.46	56.34	114.40	
JOHANNESBURG				40.92		22.16		54.83	70.71		
KEENE	28.71	37.23	42.62	111.20	132.23	230.67	217.55	292.60	203.73	210.65	167.53
KERNVILLE	85.95	83.18	99.83	113.80	141.94	184.08	267.40	191.08	174.64	144.23	
LAKE ISABELLA	55.73	58.08	57.95	69.00	91.21	122.67	145.95	131.86	125.26	90.59	83.33
LAMONT	60.75	63.68	68.83	74.80	89.81	119.13	169.43	148.66	84.10	56.62	54.50
LEBEC	51.23	60.35	73.78	127.83	191.87	191.31		217.29	141.71	99.95	87.29
LOST HILLS		61.93	66.36	48.13	33.61	62.17	39.48	98.74	119.19	105.40	112.30
MARICOPA	28.47	47.17	47.28	41.98	51.19	76.92	119.92	100.00	106.83	55.15	22.56
MC FARLAND	59.12	56.93	55.84	62.16	80.89	96.51	159.69	146.56	106.83	83.33	76.92
MC KITTRICK		35.25				68.18			132.08		30.11
MOJAVE	40.14	44.16	52.27	58.44	77.44	114.41	146.92	150.75	74.09	38.76	40.58
ONYX	14.84	45.34	39.28	164.84			182.23	110.61	121.30	32.35	92.78
RANDSBURG						73.46					
RIDGECREST	44.00	50.85	58.75	70.54	82.64	112.76	149.39	132.89	122.95	109.72	98.07
ROSAMOND	62.41	72.09	79.18	99.36	133.36	169.52	192.82	163.04	104.22	75.98	76.76
SHAFTER	63.53	63.51	63.75	67.71	88.03	122.78	176.15	161.42	118.40	87.21	85.36
TAFT	51.99	58.48	58.03	63.42	71.14	100.42	141.55	134.99	100.21	59.51	47.75
TEHACHAPI	68.63	75.84	86.89	102.14	127.54	168.57	189.11	162.81	134.84	109.90	106.82
TUPMAN	48.31	27.11		66.29		72.93					
WASCO	59.24	62.26	62.46	68.67	83.20	121.34	173.76	165.41	118.53	89.59	85.61
WELDON	64.34	82.95	67.09	76.19	104.33	112.11	111.10	165.60	129.36	46.37	49.79
WOFFORD HGHTS	66.29	66.25	81.59	90.39	110.26	156.70	192.52	161.75	156.99	106.39	132.20
WOODY			106.35	85.94		251.62		311.09	104.09		
KERN COUNTY	\$ 64.99	\$ 70.46	\$ 76.76	\$ 90.66	\$ 115.13	\$ 160.08	\$ 180.57	\$ 157.17	\$ 113.55	\$ 84.28	\$ 83.69

Source: MDA DataQuick; DQNews.s.com

Exhibit A-4											
Commercial Property Sales (Kern County)											
City	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	Jan-Apr 2010
ARVIN	7	4	7	5	9	3	3	3	5	6	1
BAKERSFIELD	191	223	266	279	350	334	242	223	146	99	38
BODFISH	1		1			1			2	1	
BORON	2	2	2	3	6	2	3	1	3		
BUTTONWILLOW	2	4	1			4	4	3	1		
CALIENTE					3	1	1				
CALIFORNIA CITY	3	3	2	4	9	7	4	2		3	1
CANTIL											
DELANO	16	9	14	8	20	22	16	9	6	3	1
EDWARDS					1					1	
FELLOWS			1			2					
FRAZIER PARK	7	4	7	4	9	4	3	5	1	1	
INYOKERN	1		1	2		2	2				
JOHANNESBURG			1								
KERNVILLE	1	1	2	11	6	2	3	4	2	1	2
LAKE ISABELLA	4	5	6	4	9	7	5	7	2	1	2
LAMONT	3	8	8	3	8	3	8	4	4	4	1
LEBEC	1	1	3	2	5	4	1	1			
LOST HILLS			1	1	2	1			2	1	
MARICOPA		1	1	3	2	1		1	1		
MC FARLAND	4	1	1	3	2	4	2	2	1	1	
MC KITTRICK						1					
MOJAVE	6	3	5	3	5	15	12	2	3	1	1
ONYX		1				1			1		
RANDESBURG		1		1	2				1	2	
RIDGECREST	14	20	20	19	32	28	21	14	13	8	5
ROSAMOND	6	3	6	8	8	12	11	8	3	5	
SHAFTER	5	5	2	2	6	7	4	4			1
TAFT	9	5	12	16	19	23	23	13	7	4	2
TEHACHAPI	13	67	15	10	28	10	9	9	6	6	
TUPMAN					1			1			
WASCO	6	8	2	10	12	17	6	11	2	2	
WELDON		1		1	1	2	1	1	1	1	
WOFFORD HGHTS	2	6	4	3	14	3	4	5	2		
KERN COUNTY	332	417	418	441	620	552	414	355	226	162	56

Source: MDA DataQuick; DQNews.com

Exhibit A-5											
Median Commercial Property Sale Price											
City	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	Jan-Apr 2010
ARVIN	\$ 35,000	\$107,500	\$ 55,250	\$ 150,000	\$ 48,000	\$ 35,000	\$ 81,000	\$380,000	\$200,000	\$120,000	\$230,000
BAKERSFIELD	134,000	150,000	150,000	180,000	235,000	325,000	315,000	341,500	367,500	204,250	190,000
BODFISH	120,000		290,000			180,000			80,000	150,000	
BORON	127,000	45,250	50,000	62,500	56,000	98,000	150,000		26,750		
BUTTONWILLOW	1,775,000	373,500	55,000			1,400,000	425,000	755,000	85,000		
CALIENTE					180,000		165,000				
CALIFORNIA CITY	42,500	176,750	174,000	45,500	135,000	130,000	251,250	350,000		230,000	
CANTIL											
DELANO	530,000	230,000	150,000	200,000	250,000	271,750	544,500	97,500	297,500	226,500	
EDWARDS					119,000					723,000	
FELLOWS						118,000					
FRAZIER PARK	100,000	210,000	235,250	127,500	175,000	96,750	400,000	512,000	340,100	380,000	
INYOKERN	100,000			107,000			190,000				
JOHANNESBURG			110,000								
KERNVILLE				201,500	287,000	265,000	180,000	765,000	350,000		754,500
LAKE ISABELLA	302,500	66,500	105,000	52,000	110,000	180,000	166,000	190,000	125,000	85,000	130,250
LAMONT	50,000	89,000	82,000	57,500	157,000		90,000	247,000	134,500	125,000	225,000
LEBEC		240,000	172,500	2,400,000	160,000	213,500		221,000			
LOST HILLS				40,000	530,000	1,854,000			240,000	900,000	
MARICOPA		20,000	12,000	14,250	52,250						
MC FARLAND	100,000	310,000	7,000	75,000	85,000	257,000	249,750	132,500	200,000		
MOJAVE	394,000	175,000	60,000	160,000	50,000	125,000	380,000	350,000	300,000	650,000	350,000
ONYX		105,000				45,000			683,000		
RANDESBURG		63,000			110,000						
RIDGECREST	95,000	68,500	77,500	125,000	225,000	200,000	240,000	150,000	96,000	375,000	370,000
ROSAMOND	128,250	189,000	153,500	90,000	190,000	290,000	600,000	285,000	225,000	450,000	
SHAFTER	66,250	106,000	95,000		320,000	117,500		415,000			395,000
TAFT	42,000	650,000	140,000	89,500	91,000	131,000	180,000	103,000	31,000	85,000	
TEHACHAPI	110,000	9,000	187,000	175,000	160,000	275,000	240,000	254,000	197,500	287,500	
TUPMAN								55,000			
WASCO	91,000	65,000	515,000	145,000	150,000	181,750	350,000	343,500		250,000	
WELDON				150,000		100,000	265,000	410,000		130,000	
WOFFORD HGHTS	116,000	79,000	32,000	147,500	240,000	535,000	575,000	270,500	500,000		
KERN COUNTY	\$ 120,000	\$105,000	\$142,500	\$ 162,500	\$190,000	\$ 270,000	\$300,000	\$305,000	\$299,000	\$218,500	\$219,000

Source: MDA DataQuick; DQNews.com

Exhibit A-6											
Median Commercial Property Sale Price per Square Foot											
City	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	Jan-Apr 2010
BAKERSFIELD	\$ 58.31	\$ 64.87	\$ 72.33	\$ 38.89	\$ 101.61	\$ 132.40	\$ 148.18	\$ 152.41	\$ 106.63	\$ 67.55	\$ 76.66
CALIENTE							91.67				
CALIFORNIA CITY				44.20		199.92	128.62			169.99	
DELANO					52.88		405.31			236.38	
FRAZIER PARK				111.11							
KERNVILLE				83.33			198.86				
LEBEC					166.67						
MARICOPA		7.92									
MC FARLAND					52.99						
RIDGECREST			41.92	67.15	82.64						
SHAFTER											
TEHACHAPI	39.92							219.79	106.98		
WASCO						143.93					
WOFFORD HGHTS						56.09		144.23			
KERN COUNTY	\$ 56.73	\$ 64.26	\$ 72.33	\$ 38.89	\$ 95.55	\$ 130.99	\$ 148.18	\$ 152.20	\$ 106.81	\$ 68.48	\$ 76.66

Source: MDA DataQuick; DQNews.com

Exhibit A-7											
Industrial Property Sales (Kern County)											
City	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	Jan-Apr 2010
ARVIN			1	2	1	5		1	2	1	
BAKERSFIELD	50	57	63	62	89	97	70	48	37	18	11
BORON			1								
BUTTONWILLOW		1			1	1					
CALIFORNIA CITY		3	2	1	1		1	3			
DELANO	1	4	2	1	3	3	3	5	2	1	
FELLOWS	3				1	4	1	1			
FRAZIER PARK							1				
KERNVILLE									1		
LAKE ISABELLA	1	1			1	3			2		
LAMONT	1	1								1	
LEBEC	2	1			2			1			
LOST HILLS					1					1	
MC FARLAND	1					1			2		
MC KITTRICK			1								
MOJAVE		1				3		2	1		2
RIDGECREST	3	1	3	5	3	6	5	2	1	1	1
ROSAMOND				1	1				1		
SHAFTER	3	2	8	4	8	8	4	1	2	2	
TAFT			3	1	2	3	4	3	1	2	
TEHACHAPI	1	4	1	1	2	1	1	3	1		
WASCO	4	1			2	2		4	1	3	
WOFFORD HGHTS					1						
KERN COUNTY	80	89	94	80	128	149	104	85	56	32	15

Source: MDA DataQuick; DQNews.com

Exhibit A-8											
Median Industrial Property Sale Price											
City	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	Jan-Apr 2010
ARVIN			\$300,000	\$355,000	\$550,000	\$ 235,000		\$ 200,000	\$ 275,000	\$ 837,500	
BAKERSFIELD	116,000	160,000	200,000	217,250	200,000	325,000	500,000	500,000	600,000	482,500	167,500
BUTTONWILLOW		55,000				650,000					
CALIFORNIA CITY		27,500	4,000	10,000	15,000		35,000				
DELANO	20,000	105,250	11,000		71,250	99,000	125,000	150,000	121,000	3,850,000	
FELLOWS	91,000				100,000	60,000		550,000			
KERNVILLE											
LAKE ISABELLA	600,000	84,000			23,000	96,000			1,748,500		
LAMONT	137,500	65,000									
LEBEC	42,000	300,000			305,000			465,000			
LOST HILLS										250,000	
MC FARLAND						130,000			100,000		
MC KITTRICK			4,500								
MOJAVE						257,500			1,100,000		115,000
RIDGECREST	175,000	385,000	140,000	10,000	582,500	85,750	182,500	395,000	1,828,000	350,000	
ROSAMOND				62,000	390,000				2,150,000		
SHAFTER	197,272	160,000	72,500	184,500	123,000	530,000	402,500	250,000	742,500	525,000	
TAFT			12,000	76,500	88,000	64,250	180,000	1,334,500	100,000	205,000	
TEHACHAPI	310,000	53,500	995,000	375,000	77,000	1,450,000		621,250	2,200,000		
WASCO	6,000	20,000			222,000	156,000		167,500		50,545	
WOFFORD HGHTS					161,000						
KERN COUNTY	\$116,000	\$138,500	\$130,000	\$202,000	\$175,000	\$ 282,500	\$350,000	\$ 460,000	\$ 600,000	\$ 350,000	#####

Source: MDA DataQuick; DQNews.com

Exhibit A-9											
Median Industrial Property Sale Price per Square Foot											
City	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	Jan-Apr 2010
BAKERSFIELD	\$ 67.45			\$ 91.07	\$ 39.89	\$ 273.37	\$ 248.53				
KERN COUNTY	\$ 67.45	\$ 4.65		\$ 91.07	\$ 39.89	\$ 273.37	\$ 248.53				

Source: MDA DataQuick; DQNews.com



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